
ENCYCLOPÆDIA BRITANNICA
WITH
REVISED AMERICAN SUPPLEMENT

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INDEX

TO THE

NEW WERNER TWENTIETH CENTURY EDITION

OF THE

ENCYCLOPÆDIA BRITANNICA

A STANDARD WORK OF REFERENCE IN

ART, LITERATURE, SCIENCE, HISTORY, GEOGRAPHY,
COMMERCE, BIOGRAPHY, DISCOVERY
AND INVENTION

WITH

NEW AMERICAN SUPPLEMENT

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Illustrated with Hundreds of Portraits and Other Engravings

THIRTY VOLUMES

VOLUME XXX

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INDEX

TO THE

NEW WERNER TWENTIETH CENTURY EDITION

OF THE

ENCYCLOPÆDIA BRITANNICA

AND TO THE

NEW AMERICAN SUPPLEMENT

(See pages 993 to 1034)

ALSO LIST OF THE CHIEF CONTRIBUTORS

[The Initials only of whose Names appear affixed to their respective Articles], and List of the

CONTRIBUTIONS BY THE PRINCIPAL AUTHORS

FOR THE SPECIAL

CONDENSED BIOGRAPHICAL DICTIONARY

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PREFACE TO THE INDEX

To The New Werner Twentieth Century Edition of the Encyclopædia Britannica.

An Index, like a beacon to a ship or a guide-post to the bewildered traveler, indicates the course when the declination of the compass or the outline of the land has too much range from which to locate a definite point.

Ordinarily an index is merely an alphabetical list of subjects or topics treated; but that of The New Werner Twentieth Century Edition of the Encyclopædia Britannica has a wider and more diverse province to fulfill. Coupled with specific directions to leading articles are clues to inter-related thoughts and associated events, and suggestions leading to the understanding of the intricacies that make up the panorama of human history and the different phases of evolution. It is a concordance of ideas, a directory of abstract theories as well as a compendium of instructions for entering the storehouses of knowledge.

A work whose magnitude, variety and completeness constitute it at once a universal library and an every day counselor, which is as explicit in defining the needs of the husbandman as in demonstrating the parallax of the celestial orbs, that pictures the blight of ignorance and recounts the loftiest achievements of the ages, leaving no intermediate link or ramification untouched, must necessarily be of a complex nature and makes a complete collection of references to expedite research in its volumes a valuable aid to the student.

It is also obvious that a systematic series of references is indispensable in the elucidation of a theme, in all its connections and details, whether that theme is confined to one volume or extends into many. To illustrate with a simple example taken at random, under the topic of "Oriental arts," the index refers to articles in nine different volumes, each of which treats of specific subjects foreign to the one under consideration, but containing historical facts, scientific experiments and art devices bearing upon it and from which a coherent discourse or elaborate thesis may be evolved. This illustration serves another purpose, in addition to exemplifying the utility of an ample index, namely, that although each article stands alone, complete in itself and on its own intrinsic merit, it may be used as side-lights to or be made the leading exposition of other subjects. Thus, while there is no attempt to fill up chronological gaps or connect distinct currents of thought between articles, there is a subtle

connection running through the entire mosaic, each block, line, figure and color, as it were, forming a nucleus that has an affinity in the heart of another subject from which, in turn, radiate other branches, subdividing and readjusting themselves to the infinite variety of parts that form the perfect whole.

While the great excellence of the NEW WERNER TWENTIETH CENTURY EDITION OF THE ENCYCLOPÆDIA BRITANNICA rests in its vast and varied conservation of knowledge in distinct literary treatises, its value to the progress and achievements of coming ages will only be circumscribed by the limit of human genius to segregate the component parts and construct the intellectual fabrics that are to shed light on the future.

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T. Da. . . Thos. Davidson, Edinburgh [article Macneill].

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Victor Dingelstedt, Tiflis [articles Shemakha, Shusha].

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BEVAN, G. PHILLIPS. *Flannel; Flowers.*
BEVERLY, ALEXANDER. *Acta Diurna; Acta Senatus.*
BIANCHI, G. H. *Masaniello.*
*BIGELOW, JOHN. *Jefferson.*
BINGHAM, C. W. *Dorset.*
*BINNEY, W. G. *Gould, Augustus Addison.*
BIRCH, SAMUEL. *Ammon; Anubis; Apis; Athor; Copts.*
BIRCH, W. DE GREY. *Griffin.*
BIRDWOOD, SIR GEORGE. *Incense.*
BLACK, C. E. D. *Hissar; Kashgar.*
BLACK, CHARLES BERTRAM. *Chili (in part).*
BLACK, MISS CLEMENTINA. *Martineau, Harriet.*
BLACK, JOHN SUTHERLAND. *Esdras; Ewald, Heinrich George August von; Excommunication; Ezekiel; Ezra; Fasting; Fathers of the Church; Festivals; Folk-lore; Free Church of Scotland; Galatians; Genealogy; Gibbon; Guyon, Mme.; Huss; Image Worship; Lanfranc; Mary, Virgin; Mazzini; Missal.*
BLACKIE, JOHN STUART. *Æschylus.*
BLADES, WILLIAM. *Gutenberg.*
BLANCH, W. HARNETH. *Dulwich.*
BLUNT, JOHN HENRY. *English Bible.*
BLYTH, JAMES. *Graduation; Gyroscope; Hodograph; Kaleidoscope; Magic Lantern; Manometer.*
BOASE, C. W. *Macedonian Empire.*
BOLAS, THOMAS. *India Rubber.*
BOND, EDWARD AUGUSTUS. *Diplomatics.*
BONWICK, JAMES. *Queensland; South Australia; Tasmania; Western Australia.*
BOSANQUET, R. H. M. *Music, Science of; Organ.*
BOURNE, A. G. *Rotifera.*
BOUTELL, CHARLES. *Costume; Cross; Crown; Duke; Earl; Effigies.*
BOYLE, GEORGE DAVID. *Coleridge.*
BOYS, C. V. *Tricycle.*
BRABROOK, EDWARD W. *Building Societies; Friendly Societies; Savings Banks.*
BRADEN, W. *Congregationalism.*
BRADLEY, GEORGE GRANVILLE. *Stanley, Dean.*
BRANDIS, SIR DIETRICH. *Teak.*
BRICKWOOD, EDWIN DAMPIER. *Horse, Management of; Hound; Hunting; Rowing; Wrestling and Boxing; Yachting.*
BRIDGE, C. A. G. *Signals.*
*BRIGGS, CHARLES AUGUSTUS. *Presbyterianism, United States.*
BRIGGS, H. B. *Portugal, Literature of; Provence; Salamanca; Savoy; Seville.*
BRILL, A. *Mathematical Drawing.*
BROADLEY, A. M. *St. John, Knights of; Tripoli.*
BROADRIBB, W. J. *Hamilcar Barca; Hannibal; Hortensius, Quintus; Jugurtha; Lucullus; Lycurgus; Pompey; Scipio; Solon; Spain, History, Ancient; Sparta; Syracuse; Tacitus; Themistocles; Titus; Xenophon.*
BROWN, ALEXANDER CRUM. *Liebig; Mitscherlich; Molecule, Chemical Aspect; Polarity; Sainte-Claire Deville; Thénard; Wurz, C. A.*
BROWN, H. F. *Milan; Padua.*
BROWN, J. TAYLOR. *Leighton, Robert; Lyndsay, David.*
BROWN, ROBERT. *Eskimo; Greenland; Heligoland.*
BROWN, T. CRAIG. *Selkirk County.*
BROWNE, C. ORDE. *Ammunition.*
BROWNE, MONTAGUE. *Taxidermy.*
*BROWNE, WILLIAM HAND. *Baltimore.*
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BRUCE, ALEXANDER. *Ophthalmology; Spectacles.*
*BRYCE, GEORGE. *Manitoba.*
BRYCE, JAMES. *Emperor and Empire; Justinian; Procopius; Theodora; Tribonian.*
BUCHAN, ALEXANDER. *Atmosphere; Barometer; Climate; Hygrometry; Meteorology.*
BUCHANAN, J. Y. *Lake; Mediterranean.*
BUCHHEIM, C. A. *Gervinus.*
BUCKLEY, ARABELLA BURTON. *Lyell.*
BUCKMASTER, J. C. *Cookery.*
BUNBURY, SIR EDWARD H. *Asia Minor; Bithynia; Cappadocia; Caucasus; Cilicia; Circassia; Crete; Cyprus; Ionia; Italy, Geography; Latium; Liguria; Lucania; Lycia; Mela, Pomponius; Nearchus; Numidia; Paphlagonia; Pompeii; Pontus; Ptolemy; Pytheas; Rhodes; Sabines; Samnites; Samos; Thule.*
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BUNSEN, G. VON. *Bunsen, Baron.*
BURBURY, S. H. *Molecule.*
*BURLINGAME, EDWARD LIVERMORE. *Ripley, George.*
BURNETT, GEORGE. *Mar, Earldom of.*
BURNLEY, JAMES. *Bradford, Borough.*
BUTLER, A. J. *Tyrol.*
BUTLER, EDWARD DUNDAS. *Hungary; Ladrone; Lima.*
BUTLER, F. H. *Chemistry, History; Chloral; Chromium; Compass; Cyprus; Dalton; Davy, Sir Humphrey; Digitalis; Echinodermata; Ergot; Flame; Forbes; Frankincense; Fuchsia; Galls; Garnet; Geoffroy St.-Hilaire; Guyton, de Morveau; Hazel; Hellebore; Holly; Honey; Horse-Chestnut; Hunter, John and William.*

C

*CABLE, GEORGE W. *New Orleans.*
CAIRD, EDWARD. *Cartesianism; Metaphysic.*
CAIRD, F. M. *Surgery, Thoracic and Abdominal.*
CAMBRIDGE, O. PICKARD. *Arachnida.*
CAMERON, PETER. *Hymenoptera.*
CAMERON, T. W. *Wolsey.*
CAMPBELL, DONALD. *Slate.*
CAMPBELL, F. J. *Blind.*
CAMPBELL, LEWIS. *Plato; Sophocles.*
CANDLISH, J. S. *Dogmatic.*
CANTOR, MORITZ. *Pisanus; Stevinus.*
CARDEW, PHILIP. *Heliography.*
CARPENTER, WILLIAM BENJAMIN. *Atlantic, Baltic; Black Sea; Caspian Sea; Foraminifera; Indian Ocean; Leeuwenhock, Anthony van; Microscope.*
CARR, ARTHUR. *John, Epistle of.*
CARR, GEORGE B. *Bede.*

CARRUTHERS, ROBERT. *Elizabeth; Fairfax; Falconer, William; Farquhar; Garrick; Gay; Gray, Thomas.*
CARTER, ANDREW. *Ken, Thomas; Lyte, Henry F.*
CARTER, F. HAYNE. *Bookkeeping.*
CATES, W. L. R. *Anglesey, Marquis of; Arndt, Ernest Moritz; Auber; Aytoun, William E.; Blake, Robert; Buscovich; Brunel, Isambard Kingdom; Chronology; De Vigny; Edmund, St.; Feuerbach, P. J. A.*
CAULFIELD, RICHARD. *Cork.*
CAYLEY, ARTHUR. *Curve; Equation; Function; Gauss; Geometry, Analytical; Monge; Numbers; Series; Surface; Wallis.*
CAZENOVE, J. G. *Church; Cistercians; Confession; Relics.*
CHAMBERS, T. K. *Dietetics.*
CHAPMAN, F. *Dunedin.*
CHAPPELL, WILLIAM. *Ballet.*
CHAUMONT, F. DE. *Hospitals; Hygiene.*
CHESNEY, CHARLES CORNWALLIS. *Battle.*
CHESNEY, G. T. *Chesney, C. C.; Combe, George.*
CHEYNE, THOMAS KELLY. *Amos; Canaan; Canaanites; Cherubim; Circumcision; Cosmogony; Daniel; Deluge; Esther; Hittites; Isaiah, Jeremiah; Jonah.*
CHIENE, JOHN. *Club-foot; Hernia; Surgery, Practice and Deformities; Vesical Diseases.*
CHISHOLM, GEORGE G. *Pyrenees; Roumania; Sardinia; Servia; Sicily; Spain, Geography and Statistics; Syracuse; Venezuela.*
CHRISTIE, RICHARD C. *Scaliger.*
CHRYSTAL, GEORGE. *Electricity; Electrometer; Galvanometer; Magnetism; Mathematics; Parallels; Pascal; Perpetual Motion; Plücker; Poisson; Riemann.*
CHURCH, A. H. *Guano; Hemp; Irrigation.*
CHURCH, RICHARD WILLIAM. *Lombards.*
CLARK, D. KINNEAR. *Railway.*
CLARK, F. W. *Apprentice.*
CLARK, GEORGE THOMAS. *Heraldry.*
CLARKE, ALEXANDER ROSS. *Earth, Figure of; Geodesy; Geography, Mathematical.*
CLARKE, F. C. H. *Khiva, Merv.*
*CLARKE, JAMES FREEMAN. *Flint, Timothy.*
CLARKE, JOHN ALGERNON. *Magic, White.*
CLEGHORN, HUGH. *Arboriculture; Forests.*
CLELAND, JOHN. *Lamarck.*
CLERKE, MISS A. M. *Galileo; Humboldt; Huygens; Kepler, John; Lagrange, Joseph L.; Laplace; Lavoisier; Leverrier; Zodiac.*
CLERKE, MISS E. *Matilda.*
CLEVE, P. T. *Sweden, Geography and Statistics (in part).*
*COCHRANE, W. C. *Lynch Law.*
CODRINGTON, THOMAS. *Roads and Streets; Tramway.*
COLE, A. S. *Lace.*
COLENSO, FRANCIS E. *Zululand.*
COLLEN, E. H. HAYTER. *Arsenal; Artillery.*
COLLET, MISS S. D. *Roy, Rammahun.*
COLLEY, SIR GEORGE POMEROY. *Army.*
COLLIER, JAMES. *Al Farabi; Al Gazali; Al Kindi.*
COLLINS, JAMES. *Gutta-percha.*
COLLINS, WILLIAM LUCAS. *Anacreon; Cleon; Cleopatra.*
COLVIN, SIDNEY. *Art; Baldovinetti; Bellini; Botticelli; Durer; Flaxman; Fine Arts; Giorgione; Giotto; Leonardo da Vinci; Marcantonio; Michelangelo.*
CONDER, C. R. *Galilee; Galilee, Sea of; Idumea; Jerusalem.*
CONNELL, ARCH BROWNING. *Bossuet, Jacques Bénigne.*
CONNELLAN, P. L. *Roman Catholic Church.*
*CONWAY, M. D. *Jew, Wandering.*
*COOLEY, W. B. *Post Office of the United States.*
COOLIDGE, W. A. B. *Jura; Switzerland, History; Tell; Valais; Winkelried; Zurich.*
COOPER, CHARLES. *Reporting.*
COOPER, THOMPSON, *Capgrave, Challoner.*
COOTE, CHARLES H. *Globe; Hakluyt; Lincoln, County and City, England.*
CORKRAN, MISS A. *Hume, Joseph.*
CORLASS, REGINALD W. *Nicholson, William.*
CORNISH, FRANCIS WARRE. *Lambert, John.*
COSENS, FREDERICK W. *Camoens.*
COTTON, J. S. *Hastings, Warren.*
COURTNEY, LEONARD HENRY. *Banking.*
COURTNEY, W. PRIDEAUX. *Marlborough; Oxford Earl of; Peterborough, Earl of; Pulteney; Russell, Earl; Tooke; Walpole; Wedderburn; Wilkes, John.*
COX, SIR GEORGE WILLIAM. *Alexander the Great; Crusades; Dorians; Eleusinia.*
CRACROFT, BERNARD. *Account.*
CREIGHTON, CHARLES. *Leprosy; Malaria; Medicine, Synoptical View; Monster; Morgagni; Parasitism; Pathology; Pellagra; Quarantine; Surgery, History; Sydenham; Vaccination; Yellow Fever.*
CREIGHTON, MANDELL. *Philip II; Waldenses.*
CROFTON, MORGAN W. *Probability.*
CROMBIE, FREDERIC. *Alexandrian MSS.; Bengel, John A.; Bleek; Bretschneider; Buxtorf, John; Simon, Richard.*
CROMBIE, JAMES M. *Lichens.*
CROOKES, WILLIAM. *Assaying.*
CROWE, JOSEPH ARCHER. *Cranach; Cuyp; Eyck; Francken; Fyt, Johannes; Gossart; Holbein; Memling; Metsu; Neer; Ostade.*
CRUICKSHANK, ALEXANDER. *Aberdeenshire.*
CUNNINGHAM, J. T. *Oyster; Salmonidæ; Siredon, Teredo.*
CUNNINGHAM, W *Shipping.*
CURTIS, C. G. *Constantinople.*

D

DALLAS, ENEAS S. *Alexandrine Verse; Alliteration.*
D'ALMEIDA, W. B. *Malacca; Manila.*
DARWIN, FRANCIS. *Breeds.*
DARWIN, GEORGE HOWARD. *Tides.*
DAVIDS, THOMAS W. R.. *Buddhism; Jains; Lamaism.*
DAVIDSON, A. B. *Apocrypha; Job; Proverbs, Book of.*
DAVIDSON, SAMUEL. *Abraham; Adam; Ahab; Antichrist; Apocalyptic Literature; Baruch; Beelzebub; Canon.*
DAVIDSON, THOMAS. *Brachiopoda.*
DAVIES, G. PALMER. *Berlin.*
DAVIES, JAMES. *Flint, County; Glamorgan; Gloucester; Hereford; Hesiod.*
DAVIS, ISRAEL. *Jews, Modern.*
DAVIS, JAMES EDWARD. *Labor and Labor Laws; Police; Poor Laws; Reformatory Schools; Registration, Parliamentary.*
*DAVIS, JOHN. *Kansas.*
DAWKINS, WILLIAM BOYD. *Cave.*
DEBY, H. *Brussels; Mechlin; Ostend.*
DEECKE, WILHELM. *Etruria.*
*DEL MAR, ALEXANDER. *Silver, Statistics of*
DENDY, A. *Wight, Isle of.*
DEWAR, JAMES. *Acid; Alum; Ammonia.*
*DEXTER, F. B. *New Haven, Conn.*
*DEXTER, HENRY MARTYN. *Mather, Cotton.*
DICKSON, SIR J. FREDERICK. *Ceylon.*
DIGBY, KENELM E. *Littleton, Thomas.*

DINGELSTADT, VICTOR. *Shemaha; Shusha.*
DITTMAR, WILLIAM. *Balance; Distillation; Fermentation; Lactic Acid; Lanthanum; Lead; Lime; Lithium; Magnesium; Manganese; Mercury; Metallurgy; Metals; Methyl; Nickel; Nitrogen; Oxalic Acid; Paraffin; Phosphorus; Platinum; Potassium; Prussic Acid; Sea Water; Selenium; Silver, Chemistry of; Soap; Sodium; Sugar; Sulphur; Tin; Tobacco; Water; Wine; Zinc.*
DOBSON, G. E. *Mammalia—sections on Insectivora, Chiroptera and Rodentia; Mole; Shrew; Vampire.*
DOBSON, HENRY AUSTIN. *Hogarth; Kauffmann, Angelica.*
DODS, MARCUS. *Pelagius; Predestination; Robertson, F. W.; Taylor, Jeremy.*
DONALDSON, JAMES. *Acts of the Apostles; Apostolic Fathers; Boeckh; Boetius; Celsus; Cerinthus; Clemens; Eginhard; Greece, History and Literature of.*
DORAN, JOHN. *Beard; Dwarf.*
DOUGALL, J. DALZIEL. *Shooting.*
DOUGHTY, C. M. *Oneiza.*
DOUGLAS, ROBERT KENNAWAY. *Canton; China; Jenghizkhan; Julien, Noel; Manchuria; Mongols, History of; Nanking; Peking; Shanghai; Tong-King.*
DOUGLAS, SIR WILLIAM FETTES. *Gordon, William.*
DOVE, P. E. *Jung (Heinrich Schilling); Knot.*
DOWSON, JOHN. *Inscriptions, Indian.*
DRENNAN, JAMES. *Ayrshire.*
DREYER, JOHN L. E. *Observatory; Sextant; Time; Transit Circle.*
*DRONE, EATON SYLVESTER. *Charleston; Cincinnati; Copyright, American.*
DRUMMOND, FREDERICK. *Knighthood; Precedence; Prince; Royal Household; State Officers; Titles of Honor; Trade Unions.*
DRUMMOND, HENRY. *Zambesi.*
*DUNNING, S. WRIGHT. *Railway, United States.*
DURIE, WILLIAM. *Alfred the Great.*
DYER, WILLIAM T. T. *Biology; Distribution; Ferns.*

E

EASTLAKE, LADY ELIZABETH R. *Gibson, John; Jameson, Mrs.; Lockhart, John Gibson.*
EDWARDS, AMELIA BLANDFORD. *Mummy.*
EDWARDS, EDWARD. *Newspapers; Post Office.*
EGGELING, JULIUS. *Brahminism; Sanskrit.*
ELLES, W. KIDSTON. *Dahomey.*
ELLIOT, DAN. GIRAUD. *Jaguar.*
ELLIS, ALEXANDER J. *Phonetics; Speech Sounds.*
*ELLIS, GEORGE EDWARD. *Boston; Fillmore, Millard.*
ELTON, CHARLES I. *Municipality; Parish; Primogeniture.*
*ESTING, F. M. *Girard, Stephen.*
ETHÉ, HERMANN. *Mirkhond; Nasir; Nizami; 'Omar Khayyám; Persian Literature; Rúmi; Sa'di.*
EVANS, ARTHUR JOHN. *Herzegovina; Roumania; Vilachs.*
EWALD, ALEXANDER C. *Domesday Book; Ministry; Records.*
EWART, CHARLES B. *Barracks.*
EWING, J. A. *Pneumatic Despatch; Seismometer; Sewerage; Steam Engine; Strength of Materials; Traction (Electric); Ventilation; Watt, James.*
EWING, POBERT. *Shairp.*

F

FAIRBAIRN, A. M. *Arminius; Independents.*
*FALLOWS, SAMUEL. *Fisheries; Greeley, Horace; United States.*
*FALLOWS, E. HUNTINGTON. *Illinois; Kentucky.*
FARR, WILLIAM. *Census.*
FARRAR, FREDERICK WILLIAM. *Jesus Christ.*
FAUSSET, T. G. G. *Canterbury.*
FAWCETT, MRS. MILLICENT G. *Communism.*
FELKIN, ROBERT W. *Uganda.*
FENNELL, C. A. M. *Hercules.*
FERGUSON, GEORGE. *Agrarian Laws.*
FERGUSON, JOHN. *Gay-Lussac; Geber; Paracelsus; Scheele.*
FERGUSON, SIR SAMUEL. *Brehon Law.*
FERGUSON, WILLIAM. *Barrow-in-Furness.*
FERRIER, J. WALTER. *Heine.*
FFOULKES, W. WYNNE. *Chester (England).*
FINDLAY, J. R. *De Quincey.*
FITCH, J. G. *Lancaster, Joseph.*
FITZGERALD, C. C. PENROSE. *War, Naval Strategy.*
FITZGERALD, PERCY. *Dumas.*
FLEMING, GEORGE. *Mule; Murrain; Rabies; Veterinary Science.*
FLINT, ROBERT. *Ast, G. A. F.; Bastiat; Berengarius; Bodin, Jean; Buchez; Buckle, Henry; Buridan; Clarke, Samuel; Condorcet; Cudworth; Cumberland, Bishop; Theism; Theology.*
FLOWER, WILLIAM HENRY. *Horse, Zoölogy and Anatomy of; Kangaroo; Lemming; Lemur; Leopard; Lion; Llama; Lynx; Mammalia; Manatee; Marten; Mastodon; Megatherium; Mink; Narwhal; Otter; Platypus; Rhinocerus; Seal; Sheep; Sloth; Swine; Tapir; Tiger; Walrus; Whale; Wolf; Wombat; Zebra.*
FORBES, GEORGE HAY. *Altar; Amphitheater; Breviary.*
FORBES, HENRY O. *Vasco da Gama; Oporto.*
FOSTER, CLEMENT LE NEVE. *Mining.*
FOSTER, MICHAEL. *Physiology, General View.*
*FOSTER, WILLIAM E. *Providence, R.I.; Rhode Island.*
FOWLER, J. T. *Durham.*
FOWLER, THOMAS. *Hutcheson; Price, Richard; Shaftesbury, Earls of.*
FRANCIS, FRANCIS. *Angling.*
FRASER, ALEXANDER C. *Locke, John.*
FRASER, H. J. E. *Erskine, Lord; Fehmic Courts.*
*FRASER, JOHN. *Mormons.*
FRAZER, J. G. *Penates; Pericles; Phædrus; Philopœmen; Phocion; Pisistratus; Præfect; Prœneste; Prætor; Proserpine; Province; Saturn; Taboo; Theseus; Thesmophoria; Totemism.*
FREEMAN, EDWARD AUGUSTUS. *England, History to the Accession of James I; Godwine; Goths; Harold; Nobility; Normandy; Palermo; Peerage; Sicily, History.*
FRESHFIELD, DOUGLAS W. *Engadine; Grisons.*
FROST, A. HOLLINGWORTH. *Magic Square.*
FRY, SIR EDWARD. *Quakers.*
FÜHRER, A *Parsis.*
*FULTON, ROBERT B. *Mississippi, State of.*
FYFFE, C. ALAN. *Metternich; Napoleon III; Nicholas I of Russia; Turkey, History after 1718; Wellington.*

G

GAIRDNER, JAMES. *Gardiner, Stephen; Grey, Lady J.; Lancaster, House of; Leicester, Earl of; Mary, of England; Percy; Plantagenet; Talbot Family; York, House of.*

GALLÉE, J. H. *Holland, Language of (in part).*
GALLOWAY, THOMAS. *Calendar (in part).*
GALLWEY, E. J. P. *Torpedo.*
GALTON, DOUGLAS. *Heating.*
GAMGEE, ARTHUR. *Nutrition; Respiration.*
*GANNETT, HENRY. *Idaho; Iowa; Montana; Utah; Washington, D. C.; Wyoming; Yellowstone Park.*
GARDINER, SAMUEL RAWSON. *Buckingham, Duke of; England, History after Accession of James I; George I–IV; Hampden; Laud; Montrose, Marquis of; Prynne; Pym; Raleigh; Strafford.*
GARDNER, PERCY. *Corinth; Ephesus.*
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GARNETT, WILLIAM. *Dynamics; Energy; Evaporation; Hydrometer.*
GARRAN, ANDREW. *New South Wales; Sydney.*
GASQUET, J. RAYMOND. *Jenner,*
GAUSSERON, HENRI. *France, Geography of.*
*GAY, SIDNEY HOWARD. *Otis; Quincy, Josiah.*
GEDDES, PATRICK. *Insectivorous Plants; Morphology; Parasitism, Animal; Protoplasm; Reproduction, Animal; Sex; Variation and Selection.*
GEDDES, WILLIAM D. *Longinus.*
GEIKIE, ARCHIBALD. *Geography, Physical; Geology; Hutton, James; Murchison; Scotland, Geology; Vesuvius.*
GELDNER, *K. Persia, Language of; Zend-Avesta; Zoroaster.*
GELL, PHILIP L. *Khazars.*
GIBB, E. J. W. *Turkey, History to 1718 and Literature of.*
GIBBON, CHARLES. *Combe, George.*
GIBSON, ALEXANDER. *Insanity, Laws of; Libel; Mansfield; Norway, History of.*
GIBSON, JOHN. *Butterflies; Camel; Crocodile; Cattle; Coleoptera; Deer; Dog; Eel; Egg; Elephant; Fox; Frog; Hare; Hippopotamus; Hyena.*
GILL, DAVID. *Micrometer; Parallax; Telescope.*
GILRAY, THOMAS. *Cotta; Dobell; Drummond, Thomas; Edgeworth; Galt; Geoffrey of Monmouth; Henderson, Alexander.*
GINSBURY, C. D. *Ecclesiastes; Kabbalah.*
GIRDLESTONE, R. B. *Bible Societies.*
GISBORNE, WILLIAM. *New Zealand.*
GLAISHER, JAMES. *Aeronautics.*
GLAISHER, J. W. L. *Legendre; Logarithms; Napier, John; Tables, Mathematical.*
GLOVER, J. GREY. *Homeopathy.*
GOADLY, EDWIN. *Loughborough; Scarborough.*
GODFRAY, HUGH, *Dialling.*
*GODKIN, EDWIN LAWRENCE. *New York City.*
GOEBEL, KARL E. *Muscineae.*
GOEJE, M. J. DE. *Tabari; Thousand and One Nights.*
GOLDSMID, SIR FREDERICK JOHN. *Persia, Modern History and Geography; Sind; Sistân; Timur.*
*GOODE, G. BROWN. *Oyster Industry; Pisiculture.*
*GOODRICH, J. E. *Vermont.*
GORDON, ALEXANDER. *Servetus; Socinus; Valdes.*
GORDON, JOHN. *Baxter, Richard.*
GOSSE, EDMUND WILLIAM. *Almqvist; Baggesen; Baldur; Collins, Mortimer; Cowley; Crashaw; Davenant, Sir W.; Denmark; Donne; Drayton; Edda; Ewald; Holland, Literature of; Holberg; Huygens; Norway, Literature of; Oehlenschlärger; Pastoral; Sweden, Literature of; Tegnré.*
GOTCH, F. W. *Baptists.*
GOUDY, HENRY. *Prescription.*
GOUGH, A. E. *Vedanta.*
GRAFF, LUDWIG VON. *Planarians.*
GRANT, SIR ALEXANDER. *Aristotle; Hastings, Marquis of.*
GRAY, ALBERT. *Laccadives.*
GRAY, JOHN M. *Leech; Reynolds; Tassie; Wilkie.*
GRAY, ROBERT. *Whale.*
GRAY, THOMAS. *Telegraph; Telephone.*
GREEN, JOSEPH. *Uruguay.*
GREEN, SIR W. H. R. *Baluchistan; Khelat.*
GREENE, JOSEPH REAY. *Cœlentera.*
GREENHILL, A. G. *Hydromechanics, sections on Hydrostatics and Hydrodynamics.*
GRIFFITHS, ARTHUR. *Aldershot Camp; Prison Discipline.*
GRIMTHORPE, LORD EDMUND BECKETT, *Clocks; Dome; Lock; Watch.*
GROOME, FRANCIS HINDS. *Gypsies; Leith; Norwich.*
GROSART, A. B. *Abbot, George; Abel; Abercromby, David and Patrick; Adams, Richard and Thomas; Ainsworth; Airay; Akenside; Alabaster, W.; Alexander, Sir W.; Alleine, Joseph and Richard; Alsop; Ambrose; Ames; Amyraut; Andrewes; Anstey.*
GRUB, GEORGE. *Beaton, David; St. Cuthbert.*
GUBERNATIS, ANGELO DE. *Giusti; Goldoni.*
GUNN, JOHN. *West Indies.*
GUNTHER, A. C. L. G. *Flying Fish; Ichthyology; Lizard; Mackerel; Ray; Reptiles; Shark; Siluridæ; Snakes; Sword Fish; Tortoise.*
GUTSCHMID, A. VON. *Moses of Chorene; Persia, Ancient History; Phœnicia; Scythia.*
GUYARD, S. *Mohammedanism, Eastern Caliphate.*

H

*HADLEY, ARTHUR T. *Railway, Foreign and Continental.*
HALDANE, R. B. *Heraclitus; Lamettrie.*
*HALE, EDWARD EVERETT. *Everett, Edward.*
HALES, JOHN WESLEY. *Robin Hood.*
HAMERTON, PHILIP G. *Drawing; Engraving.*
HAMILTON, MISS E. *Hamilton, Sir W.*
HANNA, WILLIAM. *Brucker; Chalmers.*
HARCOURT, LEVESON FRANCIS VERNON. See VERNON–HARCOURT.
HARE, A. WILLIAM. *Surgery, Cranial.*
HARNACK, ADOLPH. *Manichæism; Marcion; Millennium; Montanism; Neoplatonism; Origen; Paul of Samosata; Peter; Polycarp; Presbyter; Prophet; Revelation, Book of; Sabellius; Simon Magus; Socrates, Historian; Sozomen; Tatian; Tertullian; Theodore; Theodoret; Valentinus.*
HARPER, W. P. *Lloyd's; Stock Exchange.*
*HARRIS, A. C. *Indianapolis.*
*HART, C. H. *Philadelphia.*
HARTLEY, SIR CHARLES AUGUSTUS. *St. Lawrence.*
HARVEY, M. *Labrador; Newfoundland; Seal Fisheries.*
HATCH, EDWIN. *Luke; Mark; Pastoral Epistles; Paul; Peter, Epistles of; Philippians; Pusey.*
HAWEIS, HUGH REGINALD. *Bell.*
HAYWARD, ABRAHAM. *Gentz; Junius.*
HEATH, T. L. *Pappus; Porism.*
HEDDERWICK, ROBERT. *Bute, County of.*

HEDDLE, M. F. *Mineralogy.*
*HENDERSON, PETER. *Horticulture, Calendar for the United States.*
HENDERSON, T. F. *Edwards, Jonathan; Essex, Earls of; Fife, County of; Foster; Fouché; Frederick I and II; Grattan; Hall, Robert; Hooker, Richard; Ireland, Geography and Statistics of; Irving, Edward; Jeffrey; Latimer; London; Mozambique; Orkney and Shetland; St. Andrews; Scotland, Statistics; Stirling; Stuart; Suffolk; Surrey; Sutherland; Wicklow; Wigtownshire; Wiltshire; Yarmouth; York.*
HENLEY, WILLIAM ERNEST. *Chamfort; Chenier; Cooper, J. F.*
HENRICI, OLAUS. *Geometry, Pure and Projective; Projection.*
HENSLOW, GEORGE. *Maize; Oat; Laurel; Maple.*
HEPWORTH, WALTER. *Fairies; Fetichism; Flag; Font; Fool; Fountain.*
HERDMAN, WILLIAM A. *Tunicata.*
HESSELS, J. H. *Salic Law; Typography.*
HIBBERD, SHIRLEY. *Ivy.*
HICKS, EDWARD L. *Athens; Inscriptions, Greek.*
HICKS, R. DREW. *Seneca; Stoics.*
HILDEBRAND, HANS. *Stockholm.*
HILDEBRANDSSON, HUGO H. *Sweden, Geography and Statistics (in part).*
HILL, R. A. *Mint (in part).*
*HILL, R. T. *Texas.*
HIND, JOHN RUSSELL. *Comet.*
*HINDS, WILLIAM A. *Oneida Community.*
HIPKINS, A. J. *Harmonium; Harp; Lute; Lyre; Pianoforte.*
*HITCHCOCK, CHARLES H. *New Hampshire.*
HJALTALIN, J. A. *Iceland.*
HOBSON, E. W. *Trigonometry.*
HODGKIN, THOMAS. *Jordanes; Narses; Odoacer; Ravenna; Theodoric; Vandals.*
HOLDICH, T. H. *Kandahar.*
HOLLAND, THOMAS ERSKINE. *Bentham; Treaties.*
HOLMES, E. M. *Gentian; Herbarium; Hop; India-Rubber; Ipecacuanha; Jaborandi; Lavender; Lemon; Myrrh; Opium; Pepper; Pharmacopœia; Quinine; Rhubarb; Vanilla.*
HOOPER, GEORGE F. *Rodney.*
HOOPER, WYNNARD. *Population; Statistics; Suicide.*
HOPKINSON, ALFRED. *Gaius.*
HOPKINSON, JOHN. *Lighting, Electric.*
HORNE, JOHN. *Oases.*
HORNER, THE MISSES. *Florence.*
*HOTCHKISS, GEORGE W. *Saws.*
*HOTCHKISS, JEDIDIAH. *Virginia.*
HOUGHTON, LORD M. M. *Hood, Thomas.*
HOUTSMA, M. T. *Seljúks; Turks.*
*HOVEY, HORACE C. *Luray Cavern; Mammoth Cave.*
HOYLE, WILLIAM E. *Phosphorescence; Sea-Serpent; Sounding; Tapeworms; Trematoda.*
*HUBBARD, J. R. *Horse-Racing in the United States.*
HUBNER, E. *Inscriptions, Roman.*
HUBRECHT, A. A. W. *Nemertines.*
HUEFFER, FRANCIS. *Bach, J. S.; Balfe; Beethoven; Berlioz; Boccaccio; Cherubini; Chopin; Cimarosa; Fux; Gluck; Handel; Haydn.*
HUGEL, BARON A. VON. *Solomon Islands; Tahiti.*
HUNTER, JOHN. *Bee.*
HUNTER, P. HAY. *Clyde, Lord.*
HUNTER, W. B. *Hydropathy.*
HUNTER, WILLIAM FREDERICK. *Canon Law.*
HUNTER, WILLIAM WILSON. *Assam; Balasor; Bengal; Bhágalpur; Bombay; Brahmaputra; Brahma-Samáj; Calcutta; Cattack; Cawnpur; Central Provinces; Chutia; Dacca; Darjiling; Delhi; Hooghly; Hyderabad; India; Madras; Mysore; North-western Provinces.*
*HUNTINGTON, ELLERY C. *Homestead; Honduras; Indians, American (modern); Indian Territory; Louisiana; Massachusetts; Hamilton, Alexander.*
HUSBAND, H. A. *Gymnastics.*
HUTCHISON, A. F. *Wallace, Sir William.*
HUTCHISON, THOMAS. *Kirkcaldy.*
HUXLEY, THOMAS HENRY. *Actinozoa; Amphibia; Animal Kingdom; Biology; Evolution.*
HYMANS, HENRI. *Rubens; Teniers; Van Dyck.*

I

INGRAM, JOHN KELLS. *Leslie, T. E. C.; McCulloch; Political Economy; Quesnay; Ricardo; Rodbertus; Say, Jean Baptiste; Senior; Slavery; Smith, Adam; Sumptuary Laws; Turgot; Young, Arthur.*

J

JACKSON, B. DAYDON. *Linnæus.*
JACKSON, HENRY. *Parmenides; Socrates; Sophists; Thales; Xenocrates; Xenophanes; Zeno.*
JACKSON, J. R. *Ginger.*
JACOBINI, D. *Propaganda.*
JEBB, RICHARD C. *Aristophanes; Demosthenes; Euripides; Greece, History and Literature; Isæus; Isocrates; Lysias; Olympia; Pindar; Rhetoric; Thucydides; Troad.*
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JENKINSON, H. I. *Cumberland.*
JEVONS, WILLIAM STANLEY. *Boole, George; De Morgan.*
JEWILL, E. *Sail.*
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JOHNSON, J. HENRY. *Patents.*
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*JOHNSTON, J. *Milwaukee.*
JOHNSTON, KEITH. *Africa; Bolivia; Brazil; Cape Colony; Costa Rica; Cuba; Fezzan.*
JONES, HENRY (CAVENDISH). *Badminton; Backgammon; Bezique; Cards; Cribbage; Croquet; Draughts; Écarté; Euchre; Loo; Piquet; Poker; Whist.*
JORDAN, W. L. *Argentine Republic.*
JULG, BERNHARD. *Mongols, Language and Literature.*
JUNG, EMIL. *Hanover.*

K

KALTBRUNNER, D. *Senegambia.*
KAN, C. M. *Holland, Geography of.*
KAY, DAVID. *Abyssinia; Algeria; Austria; Belgium.*
KEANE, A. H. *Georgia (Transcaucasia); Indians, American; Kaffraria, The Kaffres; Khorásán; Kirghiz; Malay Peninsula and Malays; Negro; Niam-Niam; Nicaragua; Nubia; Senaar; Somali; Soudan; Tibbus; Tierra del Fuego; Transvaal; Turkey, Geography and Statistics; Ural-Altaic Languages; Yucatan; Zaire; Zanzibar; Zululand.*
KEITH-FALCONER, I. G. N. *Shorthand.*
KELLAND, PHILIP. *Algebra.*
*KELLY, J. D. J. *Navy of the United States.*

KELTIE, J. SCOTT. *Finland; Flinders; Franklin, Sir John; Frobisher; Kaffraria (District); Livingstone; National Debt.*
*KENNA, JOHN E. *West Virginia.*
KENNEDY, ALEXANDER B. W. *Air-Engine; Air-Pump; Brake; Friction.*
KENT, WILLIAM CHARLES MARK. *Alford, Dean; Dalling.*
KERNEY, MICHAEL. *Romance (part of).*
*KERR, W. C. *North Carolina.*
KESSLER, KARL. *Mandæans.*
KING, C. C. *Marines.*
KING, R. J. *Cornwall; Devonshire; Exeter.*
KIRBY, WILLIAM F. *Hibernation.*
KIRKUP, THOMAS. *Canning, George; Catherine II; Cavour; Charlemagne; Charles V; Essenes; Gustavus Adolphus; Hadrian; Henry VII–VIII (of England); Herod; Julian; Lassalle, Ferdinand; Malthus; Owen, Robert; Proudhon; Saint-Simon, Comte de; Socialism.*
KITCHIN, GEORGE WILLIAM. *France, History of; Franks; Guise; Henry II and IV (of France); Holland, History of; Huguenots; Hutten; Inquisition.*
KJELLMAN, F. *Sweden, Geography and Statistics (in part).*
KNOTT, CARGILL G. *Ice; Pneumatics.*
KROPOTKINE, P. A. *Lithuanians; Livonia; Maritime Province; Moscow; Nijni-Novgorod; Nova Zembla; Novgorod; Odessa; Perm; Poland, Russian; Pskoff; Riga; Russia, Geography and Statistics; Saghalin; St. Petersburg; Samara; Samarkand; Saratoff; Siberia; Spitzbergen; Syr-Daria; Tartars; Tobolsk; Tomsk; Transbaikalia; Transcaspian Region; Transcaucasia; Turkestan; Ural Mountains; Uralsk; Volga; Volhynia; Vologda; Vyatka; Warsaw; Yakutsk; Yaroslavl; Yeniseisk.*

L

LACOUPERIE, A. TERRIEN DE. *Tibet, Government, Ethnography, History and Language.*
LAKE, JOHN J. *Brushes and Brooms; Button.*
LAMPHREY, JOSEPH H. *Apennines; Badakshan.*
LAND, J. P. N. *Physiologus.*
LANG, ANDREW. *Apparitions; Ballads; Balzac; Family; Molière; Mythology; Names; Prometheus; Tales; Theocritus; Zeus.*
LANG, P. R. S. *Calculating Machines.*
LANKESTER, EDWIN RAY. *Hydrozoa; Mollusca; Mussel; Polyzoa; Protozoa; Vertebrata; Zoölogy.*
LARGE, ALFRED. *Deaf and Dumb.*
LATHAM, G. W. *Cheshire.*
LATHAM, HENRY. *Examinations.*
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*LEEDS, ALBERT R. *Mineral Waters (in part).*
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LEGGE, JAMES. *Confucius; Lâo-Tsze; Mencius.*
*LESLEY, J. P. *Pennsylvania (in part).*
LETHEBY, HENRY. *Adulteration.*
LEWIS, THOMAS HAYTER. *Architecture (in part).*
LINDSAY, T. M. *Apologetics; Apostolic Canons; Aquinas; Armenia; Arndt; Arno; Baptism; Christianity; Franciscans; Gerson; Greek Church; Heresy; Inspiration; Irenæus; Jerome; Justin Martyr; Kempis, Thomas à; Lollards; Luther and Lutherans; Moravian Brethren; Occam; Plymouth Brethren; Zinzendorf; Zwingli.*
LISTER, THOMAS HENRY. *Crabbe, George.*
LITTLEDALE, RICHARD FREDERICK. *Jesuits; Liguori; Monachism; Neri; Penance; Pilgrimage; Trappist; Trent, Council of; Usher; Vatican Council; Xavier.*
LITTLEJOHN, HENRY D. *Drowning.*
LOCKHART, W. *Rosmini-Serbati.*
LOCKYER, JOSEPH NORMAN. *Sun.*
LODGE, RICHARD. *Hanseatic League; Spain, History, Mediæval.*
LONGMORE, SIR THOMAS. *Ambulance.*
*LORD, J. K. *New Hampshire.*
LOW, GEORGE M. *Insurance, Life.*
*LOWELL, JOHN. *Bankruptcy in the United States.*
LUARD, HENRY RICHARDS. *Grosseteste; Porson.*
LUMBY, JOSEPH RAWSON. *James, Epistle of; Jude.*
LYALL, CHARLES JAMES. *Hamasah; Hindustani Literature.*
LYONS, PONSONBY A. *Dictionary; Encyclopædia; Fust.*
LYTE, F. MAXWELL. *Salt.*

M

*Mc ADAM, D. H. *St. Louis.*
MACALISTER, ALEXANDER. *Phrenology; Physiognomy; Stigmatization.*
Mc ARTHUR, GEORGE. *Arithmetic.*
MACAULAY, LORD THOMAS BABINGTON. *Atterbury, Francis; Bunyan; Goldsmith; Johnson; Pitt.*
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Mc CLATCHIE, T. R. H. *Japan.*
*Mc CLELLAN, GEORGE B. *New Jersey.*
Mc CRIE, CHARLES G. *Knox, John.*
MACDONALD, A. *Hong-Kong.*
MACDONALD, JAMES. *Caledonia; Comitia; Druidism; Elgin; Gaul; Hadrian's Wall.*
MACDONALD, JOHN. *Fair; Fonblanque.*
MACDONELL, ARTHUR A. *Jones, Sir W.; Kalidasa.*
MACDONELL, JOHN. *Savigny; Thibaut; Zachariae von Lingenthal.*
MACDOWALL, ALEX. B. *Bellows; Blasting; Blowpipe; Brick; Bronze; Candle; File; Filter.*
Mc DOWALL, WILLIAM. *Curling; Dumfries.*
MACFARREN, SIR GEORGE A. *Music, History of.*
MACGREGOR, JAMES. *Canoe.*
Mc GRIGOR, A. B. *Sepulchre, Holy.*
Mc INTOSH, WILLIAM C. *Annelida; Leech.*
MACKAY, ÆNEAS J. G. *Lothian; Northumberland, Kingdom of; Robert the Bruce; Scotland, History of; Sheriff; Stair.*
MACKAY, JOHN S. *Decimal Coinage; Euclid.*
MACKAY, ROBERT. *Castle.*
Mc KENDRICK, J. G. *Bell, Sir Charles; Brodie, Sir Benjamin; Ear; Eye; Longevity; Magnetism, Animal; Milk; Narcotics; Physiology, Nervous System; Sleep; Smell; Stammering; Stereoscope; Taste; Touch; Vascular System; Voice.*
Mc LACHLAN, ROBERT. *Dragon Fly; Ephemeridæ; Insects; Locust; Mosquito.*
Mc LAGAN, ROBERT. *Kashmir; Lahore; Mahmúd; Punjab.*
MACLAREN, CHARLES. *America, North and South.*
Mc LAUCHLIN, THOMAS. *Gaelic Language and Literature.*
MACLEAR, GEORGE F. *Missions.*
Mc LENNAN, JOHN F. *Lycanthropy.*
Mc MURDO, WILLIAM M. *Volunteers.*
Mc NAB, W. R. *Histology, Vegetable.*
MACPHERSON, JOHN. *Baths; Mineral Waters.*
MADAN, FALCONER. *Oxford.*
MAGNUS, SIR PHILIP. *Technical Education.*
MAHILLON, VICTOR. *Ophicleide; Oboe; Tournebout; Transverse Flute; Trombone; Trumpet; Zincken.*

MAITLAND, EARDLEY. *Gunmaking and Gunnery; Sights.*
MARKHAM, CLEMENTES R. *Geography, Historical; Peru; Polar Regions.*
MARSHALL, JULIAN. *Tennis.*
MARTIN, FREDERICK. *England, Geography and Statistics of.*
MARTIN, SIR THEODORE. *Helps, Arthur.*
MASSON, DAVID. *Milton.*
MASSON, MISS FLORA. *D'Arblay, Madame; Fouque; Freiligrath; Gaskell, Mrs.; Hemans, Mrs.; Hoffmann; Körner.*
MASSON, ORME. *Pyrotechny; Smoke Abatement.*
MASTERS, MAXWELL TYLDEN. *Horticulture, Principles of; Orchids; Palm; Peach; Potato; Vine; Wheat.*
MATTHEWS, H. J. *Londonderry, Marquis of.*
MAUNOIR, CHARLES. *Cochin China.*
MAURICE, J. F. *War.*
MAW, ARTHUR. *Encaustic Tiles.*
MAW, GEORGE. *Fireclay.*
MAX-MÜLLER. See MÜLLER, F. M.
MAXWELL, JAMES CLERK. *Atom; Attraction; Capillary Action; Constitution of Bodies; Diagrams; Diffusion; Dimensions; Ether; Faraday; Harmonic Analysis; Physical Sciences.*
MAY, THOMAS ERSKINE. *Parliament.*
MEISSAS, GASTON. *Lille; Lyons; Marseilles; Paris; Puy de Dôme; Pyrénées; Toulouse; Versailles.*
MELDOLA, RAPHAEL. *Chemistry, Organic.*
MENTEATH, P. W. S. *Andorre; Basque Provinces.*
MENZIES, ALLAN. *Scotland, Church of.*
MENZIES, R. C. *Paper, Manufacture of.*
MERIVALE, CHARLES. *Augustus; Cato; Cicero.*
MERZ, J. THEODORE. *Lotze.*
MEYER, PAUL. *Provençal Language and Literature.*
MICHAEL, ALBERT D. *Mite.*
MIDDLETON, J. HENRY. *Metal-Work; Monreale; Mosaic; Mosque; Mural Decoration (in part); Niello; Orcagna; Paestum; Palissy; Phigalia; Plate; Pinturicchio; Pisano; Pottery and Porcelain; Raphael; Ring; Robbia; Rome, Topography and Archæology; Schools of Painting; Sculpture; Seals; Selinus; Tempera; Terra Cotta; Textiles; Theatre; Tiles; Tiryns; Urbino; Venice, Antiquities; Verona; Verrocchio; Vesta; Vienna; Vitruvius; Wells (a borough); Winchester; Windsor; Wood-Carving; Wren; Zaccaro Family.*
MILL, HENRY R. *Rainband; Raingauge; Red Sea; Thermometer; Whirlpool.*
MILLER, A. W. K. *Britannia.*
MILLER, HUGH. *Northumberland, County of.*
MILLIGAN, WILLIAM. *Ephesians.*
MINTO, WILLIAM. *Byron; Chaucer; Dekker; Dickens; Dryden; Fielding; Lytton; Massinger; Mill, J. S.; Minstrel; Moore; Poe; Pope; Prior; Reade; Richardson; Rogers; Scott; Sheridan; Smith, Sidney; Smollett; Spenser; Steele; Sterne; Thomson, J.; Waller; Walton; Warton Family; Wordsworth.*
MIVART, ST. GEORGE. *Ape; Reptiles; Skeleton; Viper.*
MOFFAT, ROBERT. *Bechwana.*
MOHN, HENRIK. *Norway, Geography and Statistics.*
MONRO, DAVID B. *Homer; Wolf, F. A.*
MONTEFIORE, LEONARD A. *Górres.*
MOORE, THOMAS. *Cactus; Camellia; Horticulture, Practice; Labyrinth.*
MOORE, W. *Tonnage.*
MOREL-FATIO, ALFRED. *Quevedo; Spain, Language and Literature; Vega.*
MORFILL, W. R. *Poland; Poushkin; Russia, History and Literature; Servia; Slavs.*
MORIARTY, HENRY AUGUSTUS. *Log; Navigation; Seamanship.*
MORISON, J. COTTER. *History; Robertson, William.*
MORLEY, JOHN. *Burke; Comte; Danton; Diderot.*
MORLEY, THOMAS. *Anchor; Block Machinery, Cable; Capstan.*
MORRIS, WILLIAM. *Mural Decoration (in part).*
MORRIS, W. O'CONNOR. *Iron Mask; Nelson; O'Connell; Plunket.*
MOSELEY, HENRY NOTTIDGE. *Myriapoda.*
MUIR, THOMAS. *Squaring the Circle.*
MUIRHEAD, JAMES. *Patron and Client; Roman Law.*
MUIRHEAD, J. FINDLAY. *Leipsic; Mainz; Mecklenberg; Moravia; Munich; Nuremberg; Oldenburg; Pesth; Prague; Prussia; Rhine; Salzburg; Saxe-Weimar-Eisenach; Saxony; Schleswig-Holstein; Silesia; Stein; Transylvania; Würtemburg.*
MÜLLER, A. *Sunnites and Shi'ites (in part).*
MÜLLER, D. H. *Yemen.*
MÜLLER, FRIEDRICH MAX. *Aryan.*
MULLINGER, JAMES BASS. *Matthew of Paris; Old Catholics; Parker, Matthew; Pius IX; Popedom; Reformation; Richard of Cirencester; Universities.*
MUNRO, ROBERT. *Vetrified Forts.*
MUNRO, ROBERT. *Rude Stone Monuments.*
MURRAY, ALEXANDER STUART. *Achilles; Agamemnon; Ajax; Ajax Oileus; Amazon; Amphiaraus; Antioch; Apelles; Aphrodite; Apollo; Aqueduct; Archæology, Classical; Areopagus; Ares; Argonauts; Artemis; Athena; Athletæ; Augurs; Bronze; Circus; Costume; Dionysius; Etruria; Gems; Lamp; Laocoon; Mirror; Phidias.*
MURRAY, G. R. M. *Fungus; Parasitism, Vegetable.*
MURRAY, J. A. H. *English Language.*
MURRAY, JOHN. *North Sea; Norwegian Sea; Pacific Ocean.*

N

NESBITT, A.. *Glass, History of.*
*NEWBERRY, JOHN STRONG. *New York State, Geography.*
*NEWCOMB, SIMON. *Moon.*
NEWMAN, H. J. *Wine.*
NEWTON, ALFRED. *Birds (except anatomy); Cuckoo; Dado; Eagle; Emeu; Falcon; Flamingo; Gannet; Gare-fowl; Goat-sucker; Goose; Grouse; Heron; Hornbill; Hummingbird; Jay; Lark; Nightingale; Ornithology; Pigeon; Rhea; Swan, etc.*
NEWTON, A. V. *Globe.*
NEWTON, EDWIN T, *Plesiosaurians; Pterodactyle.*
*NEWTON, HUBERT A. *Meteor.*
NICHOL, J. *American Literature; Burns.*
NICHOLS, THOMAS. *Goodsir.*
NICHOLSON, E. B. *Mandeville, Jehan de.*
NICHOLSON, HENRY A. *Buffon; Corals; Cuttle-fish; Cuvier.*
NICHOLSON, JOSEPH S. *Taxation; Usury; Value; Wages; Wealth.*
NICOL, HENRY. *France, Language of.*
NICOL, JAMES. *Crystallography; Diamond.*
NICOLSON, ALEXANDER. *Cromwell.*
NOBLE, JOHN. *Hottentots.*
NÖLDEKE, THEODOR. *Moallakat; Mohammedanism, the Koran; Pahlavi; Persepolis; Persia, Ancient History of; Semitic Languages.*
NOREEN, ADOLF. *Scandinavian Languages.*
NORMAN, C. B. *Fez.*
NORTHCOTE, J. S. *Club (in part).*
NUGENT, SIR CHARLES H. *Fortification (in part).*
NYS, ERNEST. *Pufendorf.*
NYSTROM, J. FRANZ. *Sweden, Geography and Statistics (in part).*

O

O'DOWD, JAMES C. *Military Law; Militia.*
OHLSON, J. L. *Barbadoes; Guiana; Jamaica.*
OLDFIELD, THOMAS. *Pangolin.*
O'MEARA, E. H. *Diatomaceæ.*
O'NEILL, CHARLES. *Dyeing.*
ORELLI, A. VON. *Veto.*
*ORTON, EDWARD. *Ohio (in part).*
OTTE, MISS ELISE C. *Æsir.*
OUSELEY, G. J. *Catholic Apostolic Church.*
OWEN, SIR RICHARD. *Oken.*

P

PALEY, FREDERICK A. *Lucian; Menander; Metempsychosis; Pausanias; Pliny; Plutarch; Polybius.*
PALGRAVE, WILLIAM G. *Arabia; Caravan; Caravanserai.*
PALLISER, MRS. F. B. *Embroidery.*
PALMER, EDWARD HENRY. *Firdousi; Hafiz; Hariri; Haroun al Raschid; Hasan; Ibn Khaldoun; Legerdemain.*
PAOLI, CESARE. *Siena.*
PAPWORTH, WYATT. *Building.*
PARDON, GEORGE FREDERICK. *Bagatelle; Billiards.*
PARKER, CHARLES STUART. *Peel.*
PARKER, WILLIAM K. *Birds, Anatomy of.*
PATON, JAMES. (Principal articles.) *Asphalt; Bleaching; Book-binding; Brass; Calico-printing; Cameo; Carpet (in part); Carriage; Coffee; Copper; Distillation (in part); Flour; Gas and Gas Lighting; Glasgow (in part); Glass, Manufacture of; Leather; Linen; Matches; Oils; Rope; Sewing-Machines; Silk; Sugar; Tea; Tobacco (in part); Weaving; etc.*
PATRICK, DAVID. *Council; Deism.*
PATTISON, MRS. E. F. S. *Greuze; Houdon; Ingres; Millet, J. C.*
PATTISON, MARK. *Bentley; Casaubon; Erasmus; Grotius; Lipsius; Macaulay; More, Thomas.*
PAUL, C. KEGAN. *Godwin, Mary and William; Kingsley, Charles.*
PAULI, REINHOLD. *Lorraine; Lübeck.*
PAYNE, EDWARD JAMES. *Grey, Earl; Violin.*
PAYNE, JOSEPH F. *Linacre; Medicine, History of; Plague; Sweating Sickness.*
*PECKHAM, STEPHEN F. *Petroleum.*
PEGLER, S. HOLMES. *Goat.*
PEILE, JOHN. *Alphabet; A; N.*
PELHAM, H. F. *Livy; Nero; Nerva; Otho; Rome, Ancient History of.*
PERRY, GEORGE G. *England, Church of.*
PETRIE, W. M. F. *Pyramid; Weights and Measures.*
PETTIGREW, J. B. *Flight.*
PICTON, SIR JAMES ALLANSON. *Liverpool; Priestley.*
PIESSE, CHARLES H. *Perfumery.*
PIKE, LUKE OWEN. *Crime.*
PLATT, J. A. *Sappho.*
PLATTS, J. T. *Hindūstānī.*
POLLEN, JOHN HUNGERFORD. *Carving; Fan; Filigree; Furniture.*
POLLOCK, FREDERICK. *Sword; Tort.*
POLLOCK, WALTER H. *Musset; Thackeray.*
POOLE, R. LANE. *Wycliffe.*
POOLE, REGINALD STUART. *Egypt; Hammer-Purgstall; Hieroglyphics; Numismatics.*
PORTER, JOSIAS LESLIE. *Damascus; Dead Sea.*
PORTLOCK, J. E. *Fortification (in part).*
POSTGATE, J. PERCIVAL. *Propertius; Tibullus.*
POTTER, W. NORWOOD. *Chess.*
POWELL, F. YORK. *Iceland.*
*PRIME, SAMUEL IRENÆUS. *Morse.*
*PRINCE, J. BRADFORD. *New Mexico.*
PRITCHARD, CHARLES. *Herschel; Photometry.*
*PROCTOR, RICHARD ANTHONY. *Astronomy.*
PROTHERO, G. W. *Henry I–VI; Richard I–III; Star-Chamber; Stephen, King; Temple, Sir W.; Warwick, Earl; William I–IV; William of Wykeham.*
*PRYOR, ROGER A. *Jackson, T. J.*
PYE-SMITH, PHILIP H. *Harvey.*
*PYLE, J. G, *Minnesota.*

Q

QUICK, ROBERT H. *Froebel; Kindergarten.*

R

RADCLIFFE, E. DELME. *Falconry.*
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NEW AMERICAN SUPPLEMENT

INDEX TO VOLS. XXV–XXIX.

As the articles in the Supplementary Volumes (xxv to xxix) are *self-indexed*, because they are arranged by their titles alphabetically in place, this Index does not repeat their titles or captions in its list. It only indicates where any particular subject is to be found, incidentally treated in some other article on another topic. Thus Aeronautics being the title of an article to be found in its proper place, that reference is not made in this Index, but *aeroplane*, having no separate article, is referred to here as discussed under Aeronautics, pp. 56, 57 (Vol. xxv).

This Supplement does not repeat the titles in the original Britannica, except when it adds later information.

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